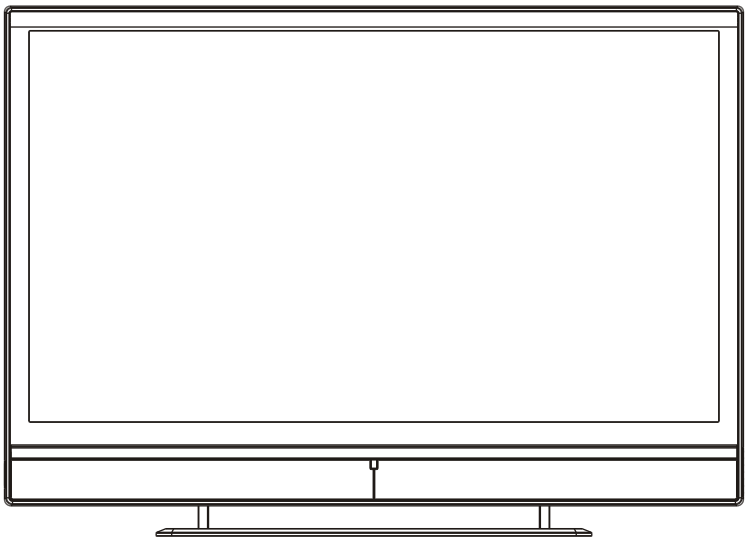
SANYO

# INSTRUCTION MANUAL

# PDP-63XR7HB

# PDP TV



**Before connecting, operating or adjusting this product, please read the manual completely.**
**Please keep this manual for future reference.**

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# Important Safety Precautions

Electrical energy can perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your new TV product, please read the following precautions carefully before using the product.

**1. Read these instructions**---All operating instructions must be read and understood before the product is operated.

**2. Keep these instructions**---These safety and operating instructions must be kept in a safe place for future reference.

**3. Heed all warnings**---All warnings on the product and in the instructions must be observed closely.

**4. Follow all instructions**---All operating instructions must be followed.

**5.Attachments**---Only use attachments/accessories specified by the manufacturer. Do not use attachments not recommended by the manufacturer. Use of improper attachments can result in accidents.

**6. Power source**---This product is intended to be supplied by a listed power supply indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system.

**7.Power cord protection**---Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
Note: where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

**8.Overloading**---Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.

**9.Entering of objects and liquids**---Never insert an object into the product through vents or openings. High voltages are present in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.

**10. Servicing**---Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**11.Damage requiring service**---If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
a. When the power cord or plug is damaged.
b. When a liquid is spilled on the product or when objects have fallen into the product.
c. When the product has been exposed to rain or water.
d. When the product does not operate properly as described in the operating instructions.
Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
e. If the product has been dropped or the cabinet has been damaged in any way.
f. When the product displays an abnormal condition or exhibits a distinct change in performance. Any noticeable abnormality in the product indicates that the product needs servicing.

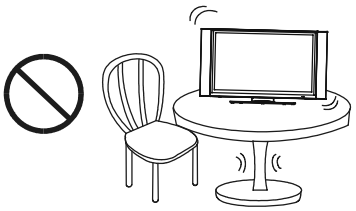
**12. Replacement parts**---In case the product needs replacement parts, make sure that the service person replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

**13. Safety checks**---Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

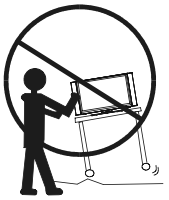
**14. Wall or ceiling mounting**---When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. This is a safety feature.

# Important Safety Precautions (continued)

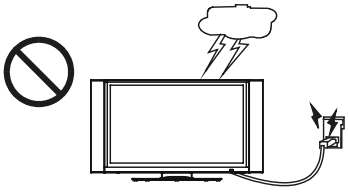
**15. Stand**---Use only with the trolley, stand, bracket, or table specified by the manufacturer, or sold with the apparatus. Do not place the product on an unstable trolley, stand or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.



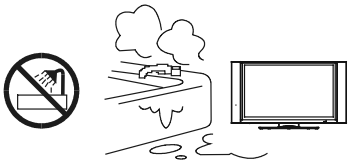
**16.Careful move**---When a trolley is used, use caution when moving the trolley/apparatus combination to avoid injury from tip-over. Sudden stops, excessive force and uneven floor surfaces can cause the product to fall from the trolley.
Never attempt to move the TV unless the AC power cord has been disconnected.



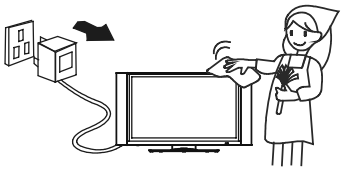
**17. Lightning**---Unplug this apparatus during lightning storms or when unused for long periods of time.
For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the aerial. This will prevent damage to the equipment due to lightning and power-line surges.



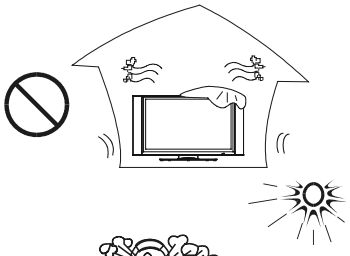
**18. Do not use this apparatus near water**---for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
Do not use immediately after moving from a low temperature to high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.
The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



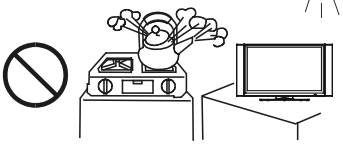
**19. Cleaning**---Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



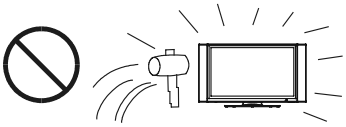
**20. Ventilation**---Do not block any ventilation openings. Install in accordance with the manufacturer instructions. The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



**21.Heat sources**---Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



**22.Panel protection**---The display panel used in this product is made of glass. Therefore, it can break when the product is dropped or impacted upon by other objects. Be careful not to be injured by broken glass pieces in case the display panel breaks.



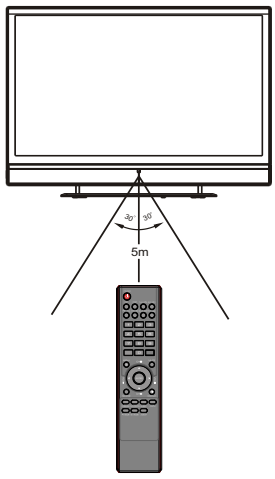
**23.Pixel defect**---The display panel is a very high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

**WARNING:** For continued safety, apparatus with class I construction shall be connected to a mains socket outlet with a protective earthing connection.

# Preparations

## Using the Remote Control

■ Use the remote control by pointing it towards the remote sensor window of the set. Objects between the remote control and sensor window may prevent proper operation.




**Cautions regarding use of remote control**

■ Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place in an area with high humidity.
■ Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.
■ The remote control may not work properly if the remote sensor window of the main unit is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or the TV set, or operate the remote control closer to the remote sensor window.

## Installing the Batteries

If the remote control fails to operate the TV functions, replace the batteries in the remote control.

1 Open the battery cover.

2 Insert two size-AAA batteries.
■ (Place the batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.)

3 Replace the cover and slide in reverse until the lock snaps.

**Precaution on battery use**

Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

■ Place batteries with their terminals corresponding to the (+) and (–) indications.
■ Different types of batteries have different characteristics. Do not mix batteries of different types.
■ Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
■ Remove batteries as soon as they are non-operable. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe with a cloth.
■ If the remote control is not used for an extended period of time, remove the batteries from the remote control.
■ The batteries (battery pack of batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

## Antenna Connection

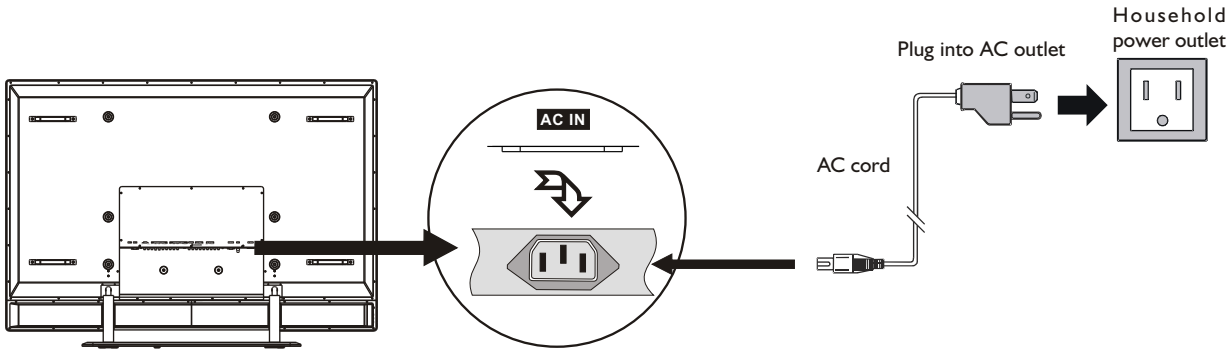
INSTALL the unit in a room where direct light will not fall upon the screen. Total darkness or a reflection on the picture screen may cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.

Optimum reception of colour requires a good signal and will generally mean that an outdoor antenna must be used. The exact type and position of the antenna will depend upon your particular area.

**Note**

- *It is recommended that the 75-ohm coaxial cable be used to eliminate interference and noise which may occur due to radio wave conditions.*
- *The antenna cable should not be bundled with the power cord and the like.*

## Power Connection



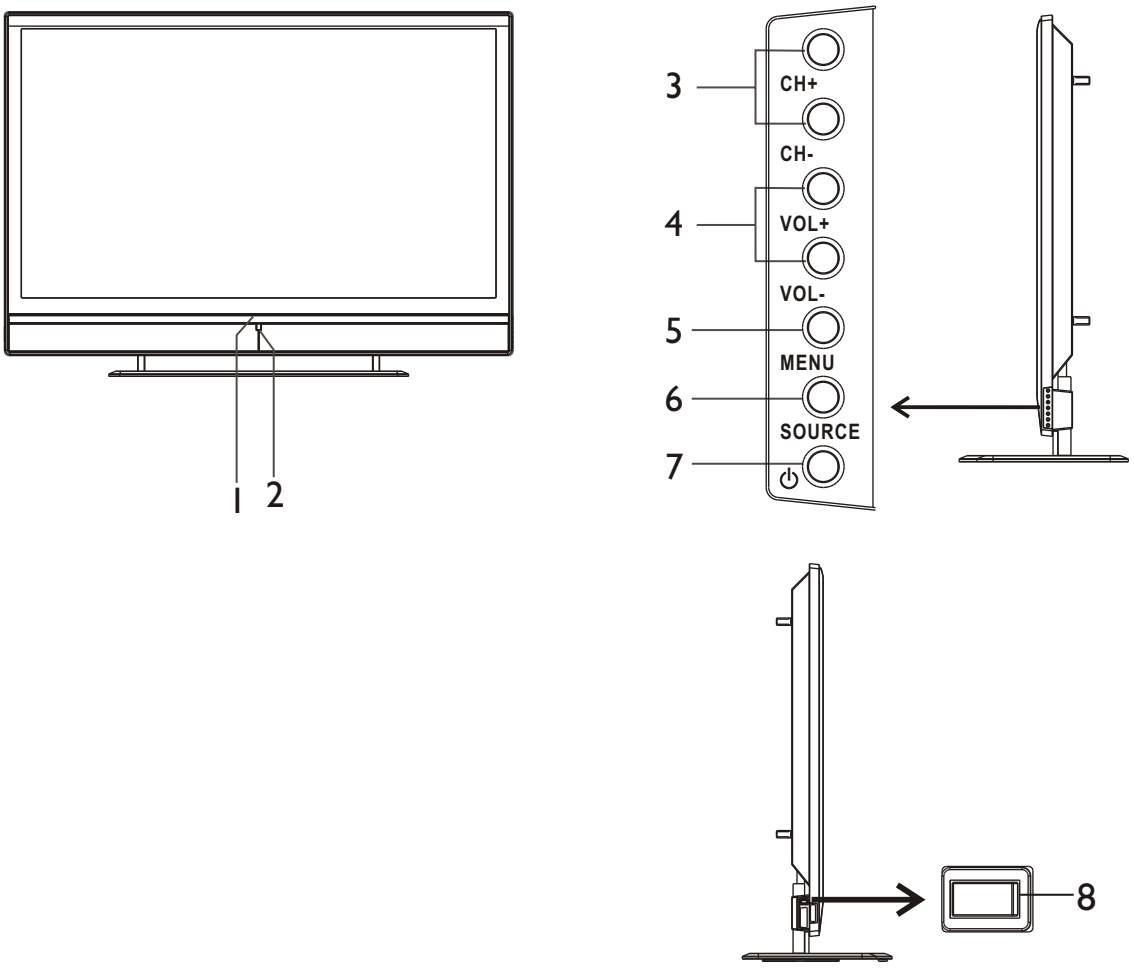

1. Connecting the female plug to the AC socket on the unit.
2. Connecting the male plug to the wall outlet as illustrated.

**Note**

- *This product should be operated only from the type of power source indicated on the marking label.*
- *Always unplug the AC cord from power outlet when not using for a long period of time.*
- *The illustration of the AC plug is for your reference only depending on your area.*

# Identification of Controls

## Main Unit (front view/side view)

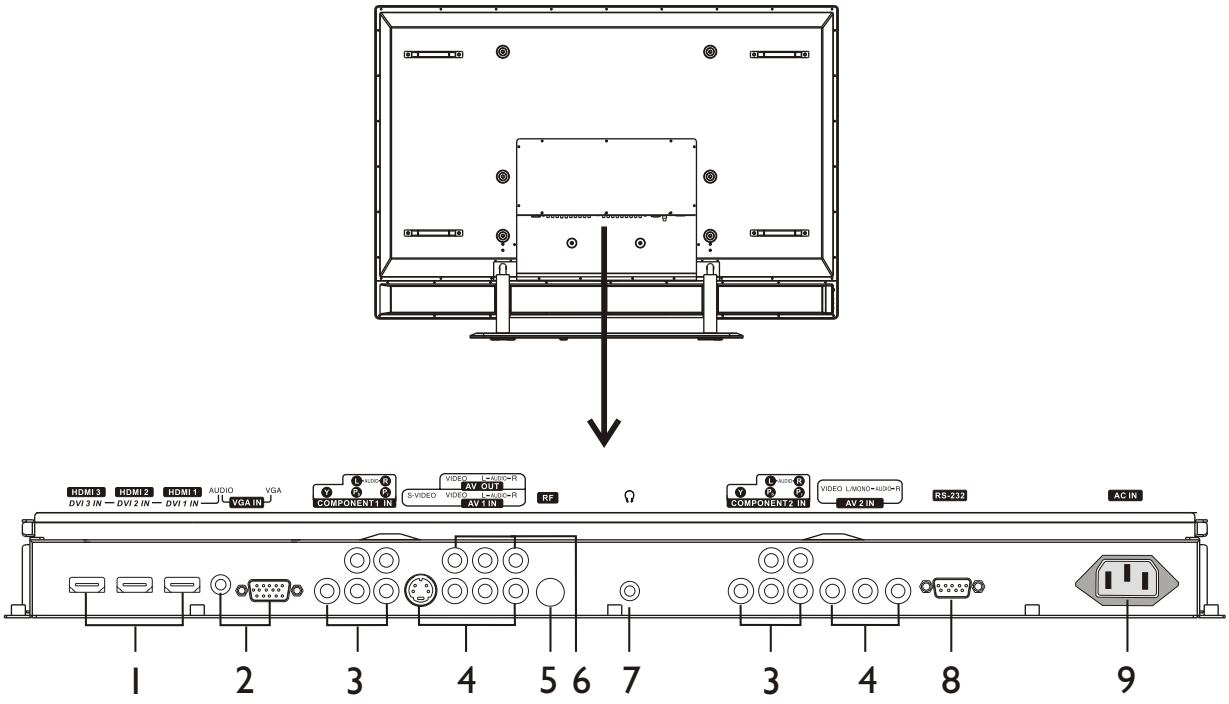



**1. Indicator**
**2. Remote Sensor**
**3. CH+/-**
Press these two buttons to directly change the TV channel.
In OSD menu, press these buttons to choose the OSD items.
**4. VOL+/-**
Press the **VOL+** or **VOL-** button to directly increase or decrease the sound volume level;
In OSD menu, press these buttons to adjust the value or setting of each item.
**5. MENU**
Press this button to access Menu main page.
**6. SOURCE**
To access source input select menu.
**7. POWER ⏻**
Press this button to turn the unit ON from STANDBY mode. Press it again to turn the set back to STANDBY.
**8.Power Switch**

*Note*

Functions of **CH+/-, VOL+/-, MENU, SOURCE** and **POWER ⏻** are also provided to the remote control. This operation manual provides a description based on operating functions with the remote control.

## Main Unit (rear view)




**1. HDMI 1/2/3 interface**
To connect with those equipments with HDMI or DVI interface, for example, Set-top box or DVD player. (A HDMI-to-DVI adapter cable is required when you are connecting a DVI-equipped device to this TV.)

**2. VGA input**
Connect to the VGA/AUDIO output jack on your computer.

**3. COMPONENT 1/2 inputs**
Connect to the audio and component output jacks of a DVD player or Set-Top Box.

**4. AV 1/2 inputs (S-Video, Video, Audio L,R)**
Receive video/audio signal from external sources such as VCR or DVD player.

**5. Antenna input**
Used to connect cable or outdoor antenna.

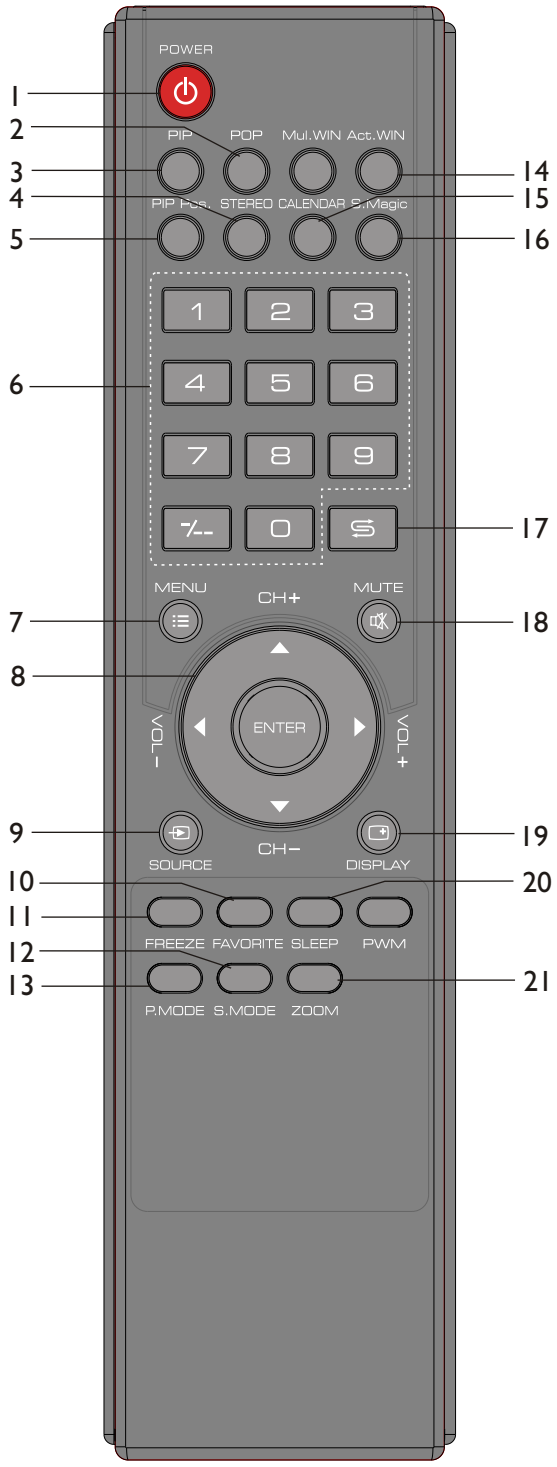
**6. AV outputs(Video, Audio L, R)**
Connect to your VCR to record programs.

**7. Headphone jack**
Connect to your headphones.

**8. RS232 control interface**

**9. AC power input**

## Remote Control Unit




1 **POWER ⏻:** Switches the TV power on or Standby.

2 **POP:** To activate picture-out-picture.

3 **PIP:** To activate picture-in-picture.

4 **STEREO:** Selects stereo, mono or bilingual sound

5 **PIP Pos.:** Selects PIP sub picture position.

6 **0 – 9 number buttons**, **-/--** **button:** Press **0-9 number buttons** to enter channel numbers or input password.

**-/--** **button**: two digit/three digit channel number selector.

7 **MENU:** Displays the main menu screen.

8 **CH+/-** (▲/▼), **VOL+/-** (◀ / ▶), **ENTER**: Menu navigation buttons.

**CH+/-** (▲/▼)**:** Changes channel up and down. Press to move up or down in the menu.

**VOL+/-** (◀ / ▶)**:** Increases or decreases the volume. Press to move left or right in the menu or to adjust a menu setting.

**ENTER:** Confirm a selection or enter a sub-menu.

9 **SOURCE:** Displays input source menu.

10 **FAVORITE:** To cycle among all favourite channels.

11 **FREEZE:** Freezes current picture.

12 **S.MODE:** Selects sound mode.

13 **P.MODE:** Selects picture mode.

14 **Act.WIN:** To select main picture frame or sub frame as active window when viewing picture-in-picture or picture-out-picture.

15 **CALENDAR:** Press to display calendar.

16 **S.Magic:** To turn on/off magic picture function, to demo magic picture.

17 **PREVIOUS button ⮌ :** Returns to the previous channel.

18 **MUTE:** Mutes the sound.

19 **DISPLAY:** Displays the current channel status or signal information.

20 **SLEEP:** Sets the sleep timer.

21 **ZOOM:** Selects screen aspect ratio.

**Note**

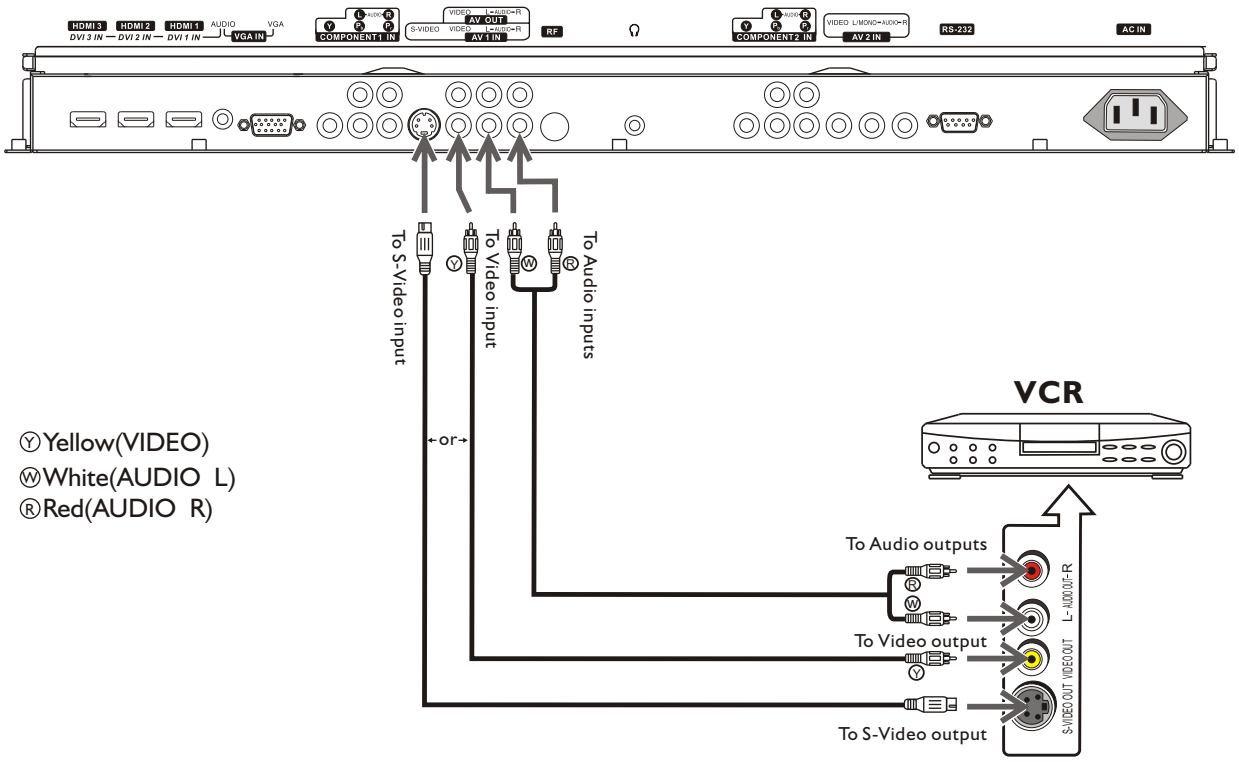
The buttons without descriptions are not active.

# Connections

## Cautions Before Connecting

- Carefully check the terminals for position and type before making any connections.
- The illustration of the external equipment may be different depending on your model.
- Loose connectors can result in image or colour problems. Make sure that all connectors are securely inserted into their terminals.
- Refer to the operating manual of the external device as well.
- When connecting an external device, turn the power off to avoid any issues.

## Connecting a VCR

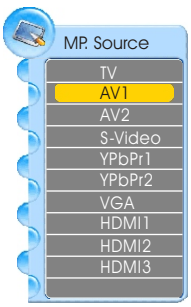



### How to connect:

Connect the Audio/Video cables between the Audio (L/R) Video jacks on the unit and VCR.

**Note**

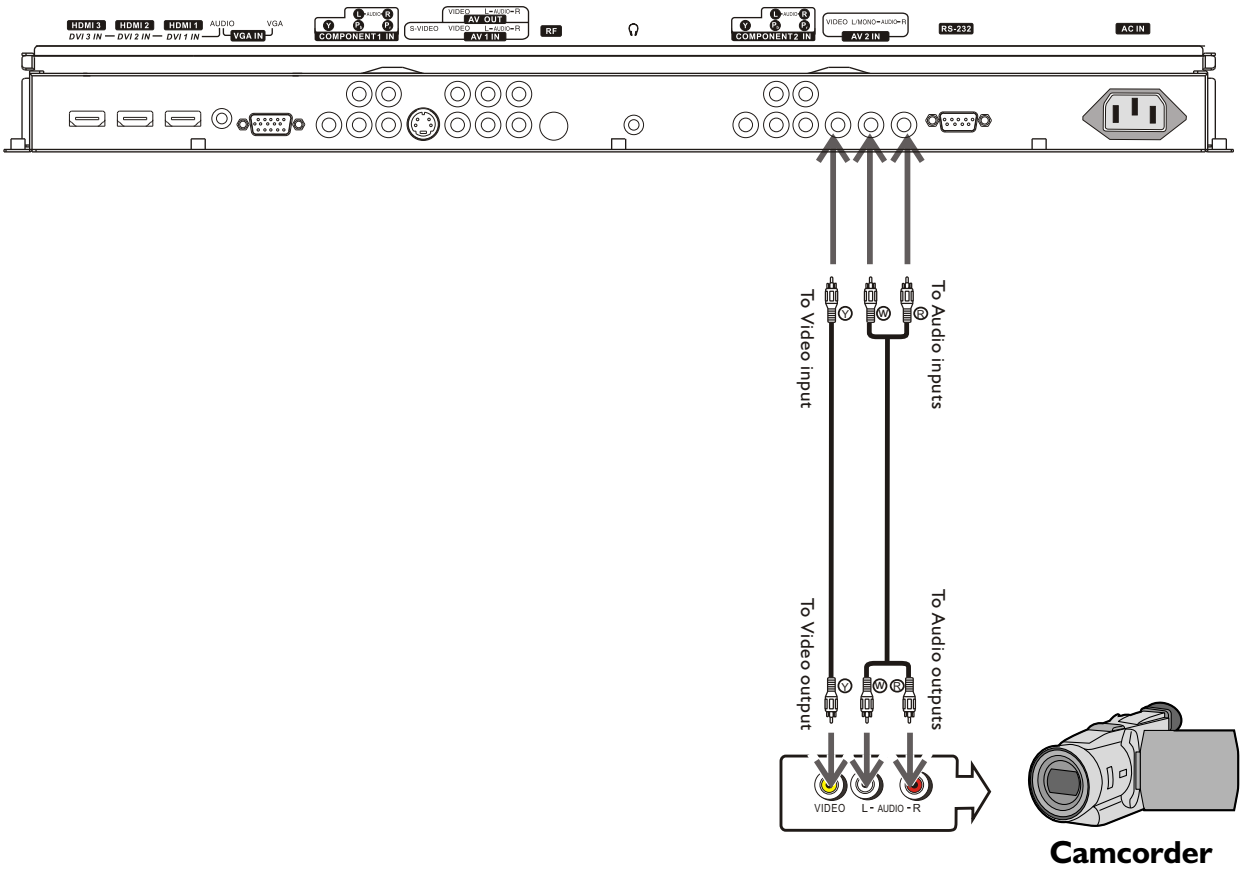
The Video terminal of the AV INPUT(1) and the S-Video terminal share the same audio input terminals. For better video, you can use the S-Video terminal if your source supports it .




### To play VCR

1. Turn on your TV , press **SOURCE** button on the remote control.
2. Press ▲/▼ to select **AV1** and press **ENTER** to confirm.
3. Turn on your VCR, insert a videotape and press the play button.

## Connecting a Camcorder

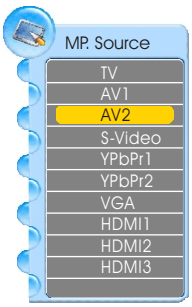



### How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and camcorder.

### To playback Camcorder

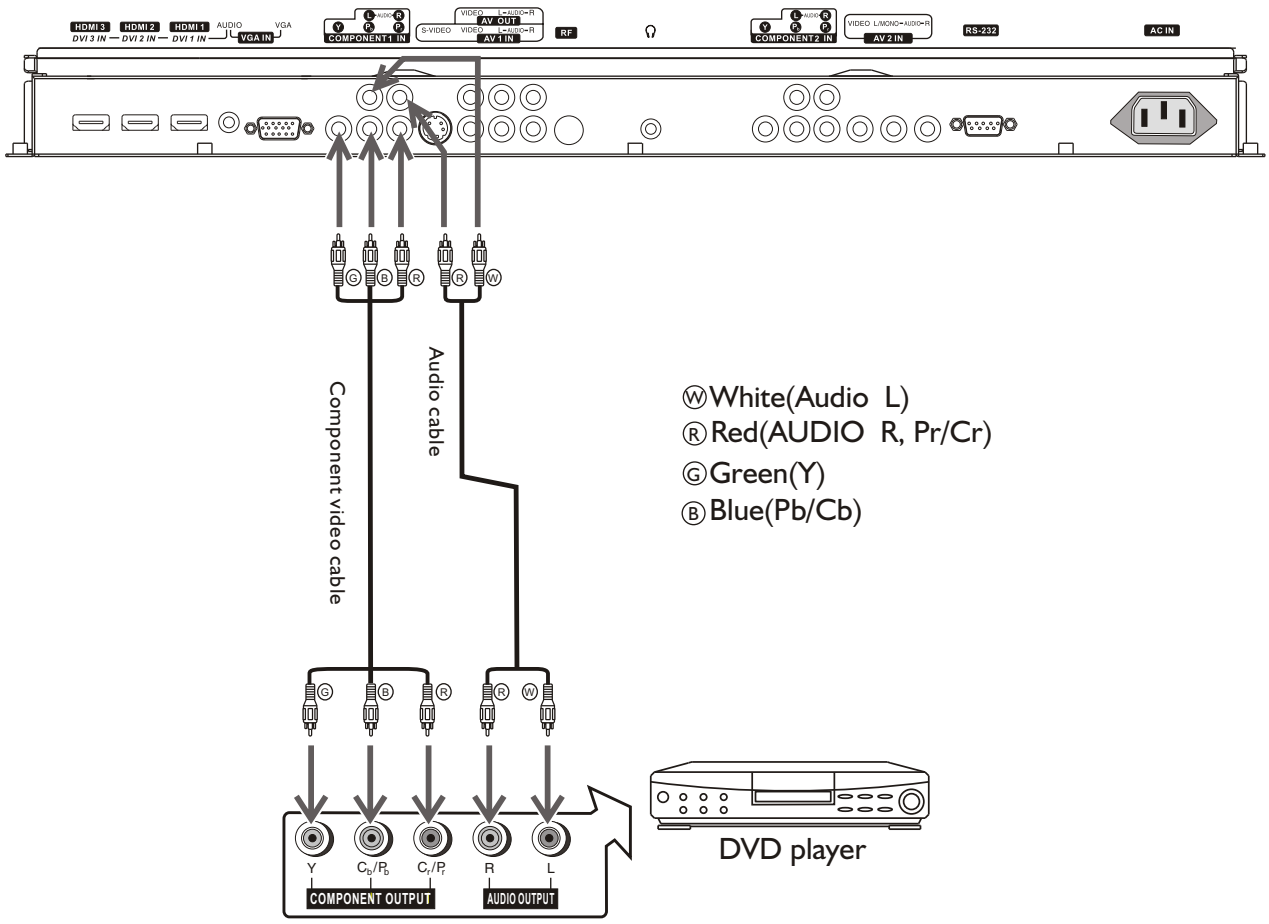
1. Turn on your TV, then press **SOURCE** button.
2. Press ▲ or ▼ to select **AV2**, then press **ENTER** to confirm.
3. Turn on your camcorder and set it to output mode. (For details, refer to your camcorder user manual.)
4. Insert the tape into the camcorder and press Play button.




**Note**

*The operations of the camcorder may be different and is dependant on your model. Please read the user manual of your camcorder to confirm operation.*

## Connecting Component Video



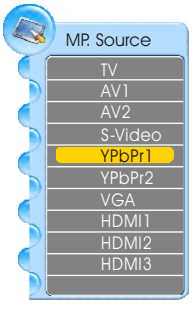

### To connect a device using component video:

Connect the Component Video cable between the Y, Pb, Pr input jacks on the unit and Y, Pb, Pr (or Y, Cb,Cr) output jacks on the device .

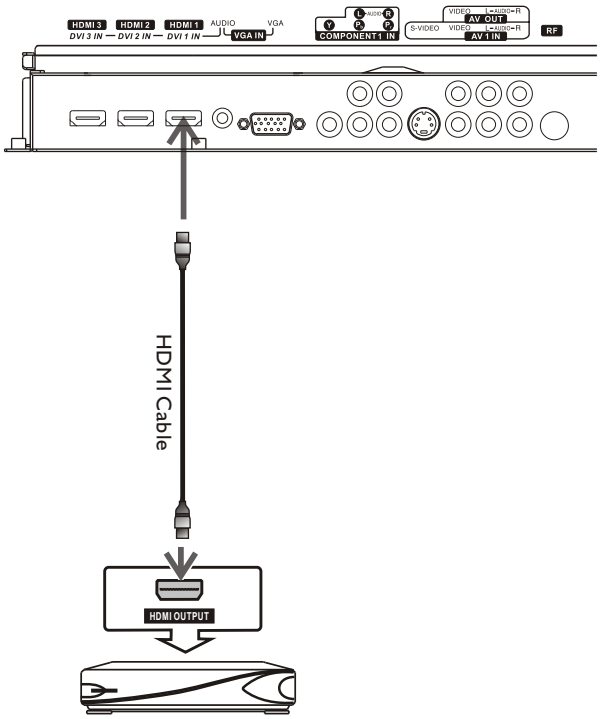
Connect the Audio cable between the AUDIO input jacks on the unit and AUDIO output jacks on the device.

### To play component video from an external device:

1. Turn on your TV, then press **SOURCE** button.
2. Press ▲ or ▼ to select **YPbPr1** (or **YPbPr2** if Component 2 input jacks are used), then press **ENTER** to confirm.
3. Turn on your external device and set it to the correct mode. See the device's user guide for more information.



## Connecting a HDMI Device



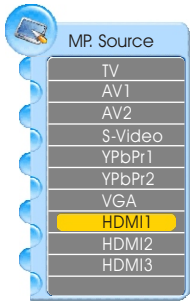

**Device with HDMI output**

### How to connect:

Connect the HDMI cable between the HDMI input jack on the unit and HDMI output jack on the product.

**Note**

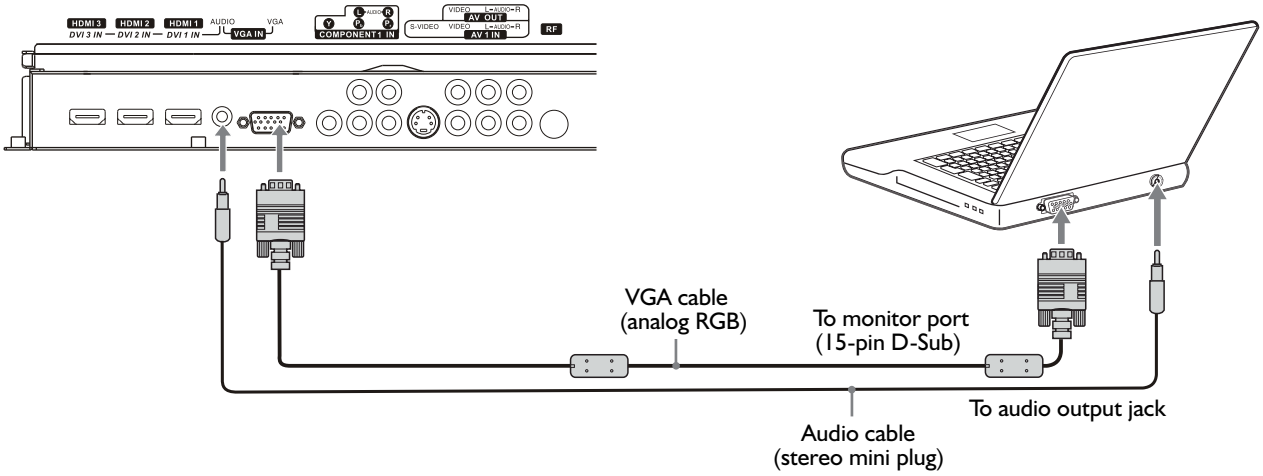
If the external device has DVI output only, use a DVI to HDMI adapter cable to connect to the HDMI terminal.
Connect the audio cable to the AUDIO IN terminal for VGA.




### To Play the Device

1. Turn on your TV , press **SOURCE** button on the remote control.
2. Press ▲/▼ to select **HDMI1** (or **HDMI2**/**HDMI3** if HDMI2/HDMI3 jack is used) then press **ENTER** to confirm.
3. Turn on your device.

## Connecting a Computer



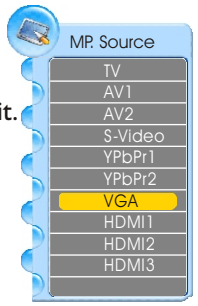

### How to connect:

Connect a VGA cable between the VGA jack on the computer and the VGA input jack on the unit.

Connect an Audio cable between the AUDIO output on the computer and AUDIO input jack on the unit.

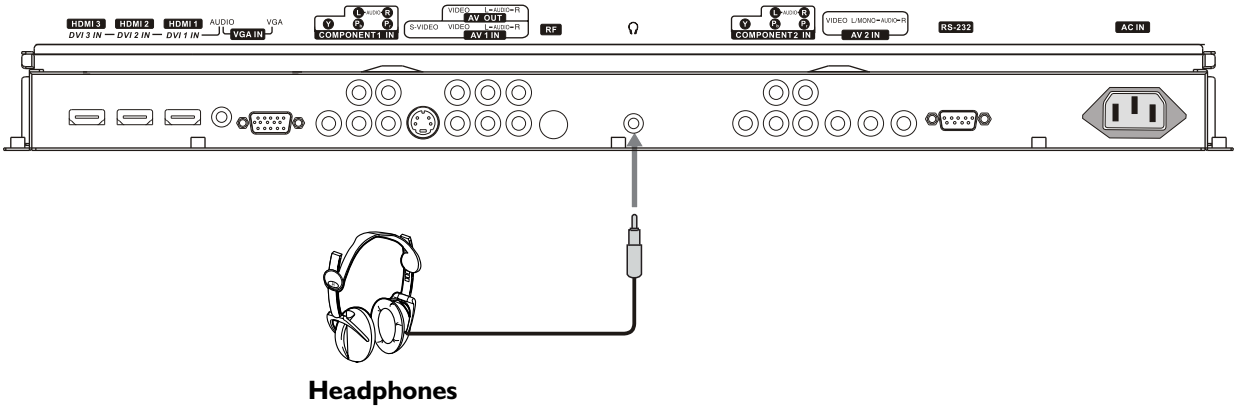
### To play video from a computer

1. Turn on your TV, then press **SOURCE** button.
2. Press ▲ or ▼ to select **VGA**, then press **ENTER** to confirm.
3. Turn on your computer, and adjust the display properties as required.



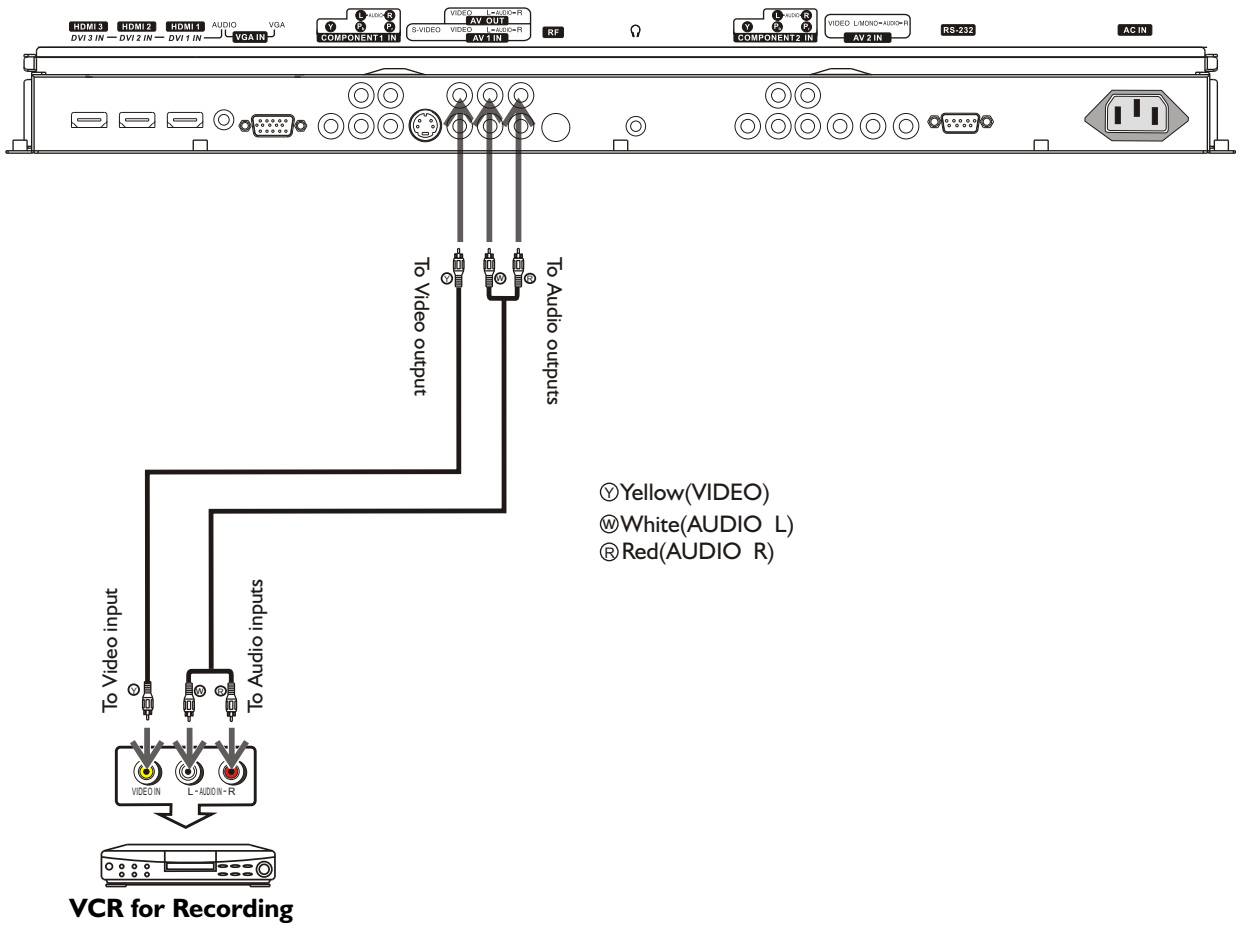

## Connecting Headphones

Insert the plug of the headphone into the TV's Headphone jack.
When using headphones, adjust the headphone volume so as to avoid excessive levels, as hearing damage may result.




**Headphones**

## Connecting a VCR (for Recording)




### How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and VCR.

### To record program

1. Turn on yourTV, select a program you wish to record.
2. Turn on your VCR, insert a videotape for recording.
3. Press the Record button to begin recording.

**Note**

- *The AV output terminals only can output the TV or AV signals.*
- You can use the Audio output terminals to connect an audio amplifier to enjoy a high-quality sound from the amplifier.

# Basic Operations

## Turning On/Off the Power

### Turning On

Insert the power cord into the wall outlet.
Press the **Power Switch** on the unit, then press the **Power** ⏻ button on the remote control.
The unit will be turned on and you will be ready to use its features.

### Turning Off

With the power on, Press the **Power** ⏻ button on the remote control to turn off the unit, and put the unit in standby mode.
To cut off the power completely, press the **Power Switch**.

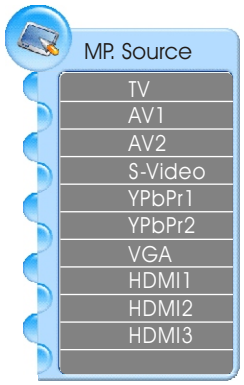
**Note**

■ *You can also use the **Power** ⏻ button on the Control panel on the main unit.*

## Selecting the Input Signal Source

1 Press **SOURCE** button.

2 Press ▲/▼ to select a desired signal source.




Options include.

TV----------Watch the TV signal.
AV1-- ---------- Watch the signal from the AV1 input terminals.
AV2 ---------- Watch the signal from the AV2 input terminals.
S-Video ---------- Watch the signal from the S-Video input terminal.
YPbPr1 ---------- Watch the signal from the COMPONENT1 input terminals.
YPbPr2 ---------- Watch the signal from the COMPONENT2 input terminals.
VGA---------- Watch the signal from the VGA jack.
HDMI1 ---------- Watch the signal from HDMI1 input jack.
HDMI2 ---------- Watch the signal from HDMI2 input jack.
HDMI3 ---------- Watch the signal from HDMI3 input jack.

3 Press **ENTER** to confirm the selection.

**Note**

■ *In other input source, you can quickly switch to TV mode by pressing Channel up/down or 0~9 buttons on the remote control.*

## Displaying the Status Information

Press the **DISPLAY** button to display the current status information such as channel number or signal source,etc.

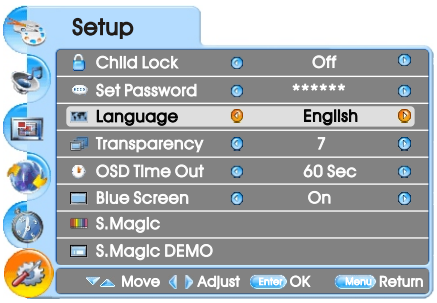
## On-Screen Menus Language Selection

1 Press **MENU** button to display the menu main page.

2 Press ▲/▼ to select **Setup** menu, press **ENTER** or ▶ to access the menu.

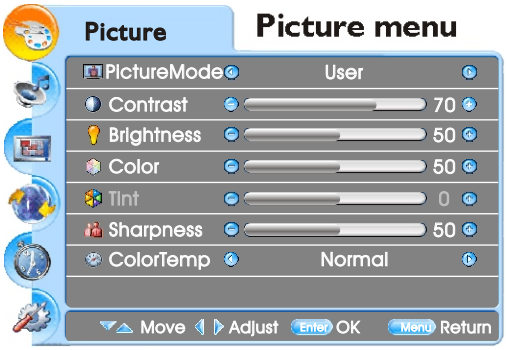
3 Press ▲/▼ to select **Language**, press ◀ / ▶ to select your desired language.

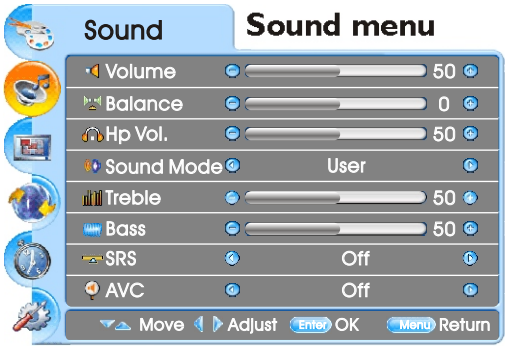
4 Press **MENU** repeatedly to exit.

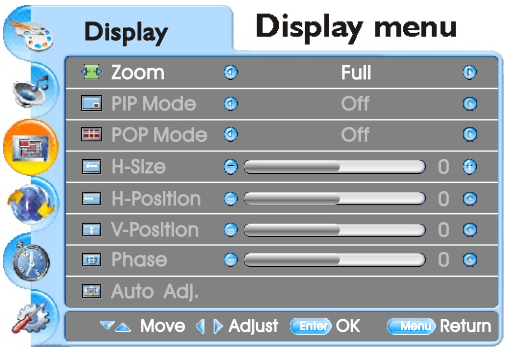


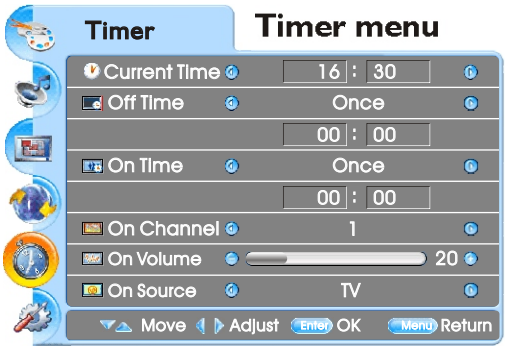
## Main Menu Overview

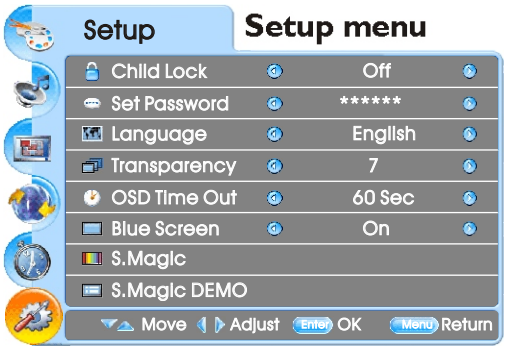
### ■ List of main menus to help you with operations






### ■ To navigate through the OSD main menu

1 With the power on, press **MENU** button and the main menu screen displays.

2 Press ▲/▼ to select menu, press **ENTER** or ▶ to access the menu.

3 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option. To enter a sub-menu press **ENTER** or ▶.

4 Press **MENU** to return to the previous menu. To exit menu system press **MENU** repeatedly. Or you may wait for some seconds(the duration depending on your system setting) and the on-screen menu will disappear from the screen automatically.

**Note**

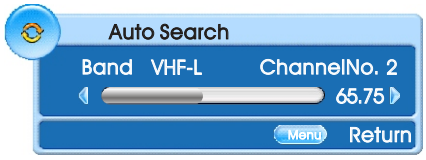
■ Menu items that are not selectable are grayed out.
■ The illustrations and on-screen displays in this manual are for explanation purpose (some are enlarged, others cropped ) and may vary slightly from the actual ones.
■ The above main menus are illustrated under TV mode. The menus and menu options may vary in different input mode.

# Memorizing the Channels

When you turn on the TV for the first time, you should perform an auto channel search to set up stations on your TV. Your TV can memorize and store all of the available channels.

## Auto Channel Search

1. Press **MENU** and the main menu screen displays.
2. Press ▲/▼ to select **Channel** menu, press **ENTER** or ▶ to access.
3. Press ▲/▼ to select **Auto Search** item.
4. Press ▶ to start auto program search.
   The TV begins memorizing all the channels available in your area.



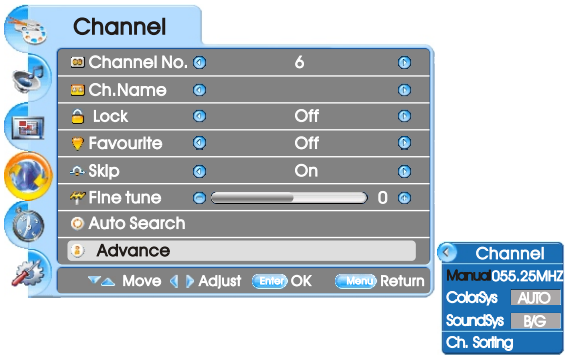

**Note**

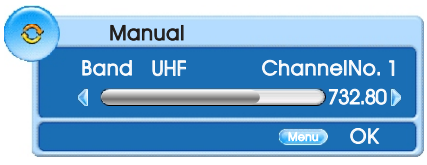
- If you want to stop the auto search, press **MENU** button.

## Manual Channel Search

If desired programs can not be searched by auto search, you can make use of manual search to search programs manually.

1. Navigate to **Channel** menu.
2. Highlight **ChannelNo.** item, and then press ◀/▶ to select your desired channel number.
3. Press ▲/▼ to select **Advance** item, press **ENTER** or ▶ to access submenu.
4. Highlight **Manual** item, press ◀ or ▶ and keep holding the button until the desired program is shown. Then the program is stored in this channel position.



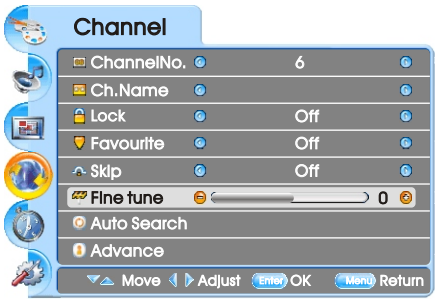

**Note**

- If your are familiar with the frequency, you can directly access the Advance submenu and select Manual item. Press ENTER and then input the frequency value by 0-9 buttons, or press ▲/▼ to select the frequency. Press ENTER again to confirm.
- You can press MENU button to stop the search.

# Memorizing the Channels (Continued)

## Manual Fine Tuning

Fine tuning is not necessary under normal conditions. However, in area of inferior broadcast conditions where adjustment is necessary for a better picture and sound, use Fine Tuning.




1 Press **MENU** and the main menu screen displays.

2 Press ▲/▼ to select **Channel** menu, press **ENTER** or ▶ to access.

3 Press ▲/▼ to select **Fine tune** item.

4 Press ◀ / ▶ to fine tune till the best possible picture and sound are achieved.

5 Press **MENU** button repeatedly to exit.

## To Skip Unwanted Channels

After memorizing the channels, you can skip unwanted channels so that only the channels you want to watch are selected with Channel up/down buttons.

1 Select the unwanted channel with channel select buttons.
Or navigate to **Channel** menu, highlight **ChannelNo.** item, press ◀ / ▶ to select the unwanted channel.

2 In **Channel** menu, press ▲/▼ to select **Skip** item.
Press ◀ / ▶ to select **On** or **Off**.
If **On** is selected, then the selected channel will be skipped.
If **Off** is selected, then the selected channel will not be skipped.

3 If you want to skip other unwanted channels, repeat steps above to change the channel number and set **Skip** to **On**.

4 Press **MENU** button repeatedly to exit.

After exiting the menu, the channels will then be skipped when you select programs with channel up/down buttons.

**Note**

- You can select the skipped channel by pressing the direct channel select buttons.

## Editing Program Name

If required, you can give a name to the programs.

1 Press **MENU** and the main menu screen displays.

2 Press ▲/▼ to select **Channel** menu, press **ENTER** or ▶ to access.

3 Press ▲/▼ to select **Ch.Name** item.

4 Press **ENTER** to edit program name.
Press ◀ / ▶ to move cursor left or right.
Press 0-9 buttons to select number or character.
After you finish inputting press **ENTER** to confirm.
The maximum length of program name is 8 characters.

5 Press **MENU** button repeatedly to exit.

| Button | Character List |
|---|---|
| 0 | 0 * # ( ) |
| 1 | 1 ␣ - . ! |
| 2 | 2 a b c @ A B C |
| 3 | 3 d e f # D E F |
| 4 | 4 g h i $ G H I |
| 5 | 5 j k l % J K L |
| 6 | 6 m n o ^ M N O |
| 7 | 7 p q r & P Q R |
| 8 | 8 s t u v S T U V |
| 9 | 9 w x y z W X Y Z |

# Memorizing the Channels (Continued) & Channel Selection

## Setting Favourite Channel

1 Select the channel you want to set as favourite with channel select buttons.
Or navigate to **Channel** menu, highlight **ChannelNo**. item, press ◄ / ► to select the desired channel.

2 In **Channel** menu, press ▲ / ▼ to select **Favourite** item.
Press ◄ / ► to select **On** or **Off**.

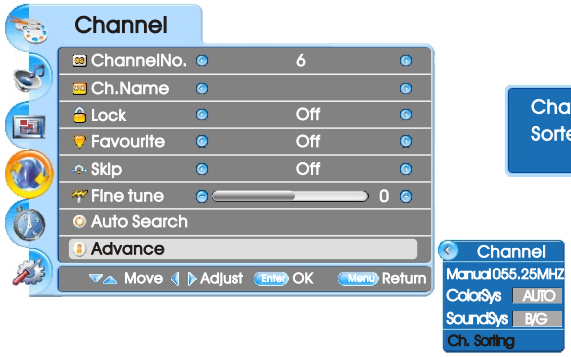
When the item is set to **On**, the selected channel will be set as your favourite channel. You can repeat the above steps to set more favourite channels so that you can cycle among your favourite channels by pressing the **FAVORITE** button.

3 Press **MENU** button repeatedly to exit.

## Sorting Channels

● The Channel Sorting function is for you to arrange channel order as you wish.

When viewing single TV screen, navigate to **Channel** menu, highlight **Advance** and then press **ENTER** to access, use ▲ / ▼ to select **Ch.Sorting** item and then press **ENTER** to access the submenu.
Highlight **Channel No.** item, select a current channel with ◄ / ► button .
Highlight **Sorted No.** item.
Press ◄ / ► to select a target channel which is to be exchanged with current channel.
Press ▼ to highlight **Ok** item.
Press **ENTER** to swap the two programs.



## Channel Selection

You can select your desired TV program by one of the following methods.

### ■ Method 1— Using direct channel select buttons (0-9) and -/-- button

**To select a one-digit channel:** Press the 0-9 number buttons to input a channel number directly.
**To select a two-digit channel:** press -/-- to display "--" and then input the channel number button by using the 0-9 number buttons.
**To select a three-digit channel:** press -/-- to display "---" and then input the channel number button by using the 0-9 number buttons.
***Note:*** *you can select the skipped channel by pressing the direct channel select buttons.*

### ■ Method 2— Using channel up/down button

Press the CH+ or CH- to cycle among all available channels. The skipped channel can not be selected by channel up/down button.

### ■ Method 3— Using previous channel button (⮌)

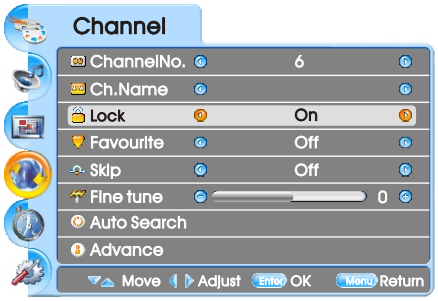
Press ⮌ to switch to the previously tuned channel.
Press again to switch back to the currently tuned channel.
***Note: Previous channel*** *button will not work if no channel has been changed after TV is turned on.*

### ■ Method 4— Using FAVORITE button

After creating your favorite channels you can press **FAVORITE** button to cycle among all favorite channels.

# Child Lock Setup

## Setting Up Child Lock



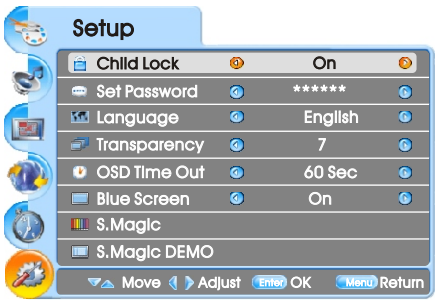

1 Select the channel you want to lock with channel select buttons.
Or navigate to **Channel** menu, highlight **ChannelNo**. item, press ◀ / ▶ to select the desired channel.

2 In **Channel** menu, press ▲ / ▼ to select **Lock** item.
Press ◀ / ▶ to select **On**.

3 Repeat the above steps to set lock to other TV program.

4 Navigate to **Setup** menu, highlight **Child Lock** item.
Press ◀ / ▶ to select **On**.

5 Press **MENU** button repeatedly to exit.

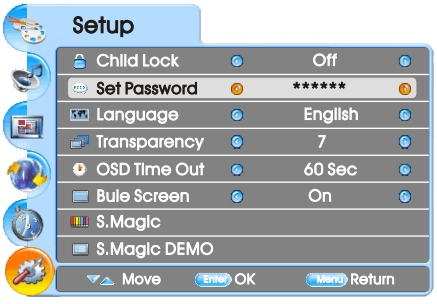



- Now the Child Lock function is activated. When you select these locked channels the screen is blank.
- When Child Lock is activated, to access Channel menu you should input the password.

**Important note:** to enable child lock, you must set **Lock** to **On** in **Channel** menu and set **Child Lock** to **On** in **Setup** menu.

- To cancel Child Lock function, navigate to **Setup** menu, highlight **Child Lock** item and press ◀ / ▶. Then input the password to set it to **Off**.
- To check channel locked status, you can press **DISPLAY** button.
- After inputting the password, to activate the child lock function, please enter into the **Setup** menu and set **Child Lock** to **On** once again.

## Changing Password




1 Press **MENU** and the main menu screen displays.

2 Press ▲ / ▼ to select **Setup** menu, press **ENTER** or ▶ to access.

3 Press ▲ / ▼ to select **Set Password** item, then press **ENTER**.

4 Enter the correct password. (The default password is 000000)

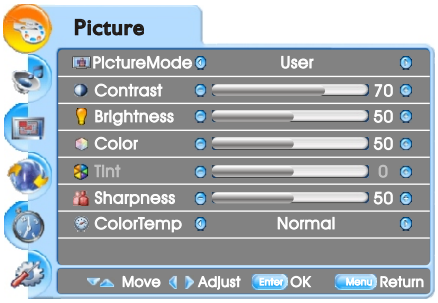
5 Input the new password.

6 Input the new password again and then the password has been changed successfully.

Be sure to write down your password and retain it for future use. If you do forget the password, the unit provides a super password "**962326**" for you to access the Channel menu or change password or reset child lock. You may use the super password to overwrite the old password, and the system will auto reset the password to 000000.
Please DO NOT let the children know the super password.

# Picture Adjustment

## Customizing the Picture




1 Press **MENU** and the main menu screen displays.

2 Press ▲/▼ to select **Picture** menu, press **ENTER** or ▶ to access.

3 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option. Press **MENU** to return to previous menu.

| *Option* | *Description* |
|---|---|
| Picture Mode | Selects a desired picture mode. You can select from **Vivid, Nature, Soft** and **User**. |
| | **Vivid:** Select for a bright and vivid picture. |
| | **Nature:** Select for a normal picture. |
| | **Soft:** Select for a finely detailed picture. |
| | **User:** The picture quality you set. |
| ***Note:*** *To quickly change the picture mode, press the* ***P.MODE*** *button repeatedly.* | |
| Contrast | Adjusts image contrast. |
| Brightness | Adjusts screen brightness for easier viewing of dark picture such as night scenes and black hair. |
| Color | Adjusts color saturation. |
| Tint | Adjusts tint for image. |
| Sharpness | Adjusts image sharpness and displays a sharp image. |
| ColorTemp | Selects one of three automatic color adjustments. Sets to **Warm** to enhance hotter colours such as red, or set to **Cool** to see less intense colors with more blue. You can select from **Warm**, **Cool** and **Normal**. |

***Note***

- *Tint is only for NTSC system.*
- *Menu item that is not selectable is grayed out.*

## To Freeze the Picture

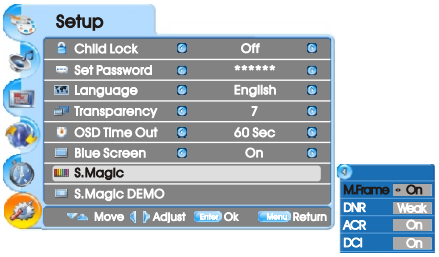
Press the **FREEZE** button to freeze the image on the screen (the video sources are still running). Press the button again to reactivate the image.

***Note***

If a fixed image is displayed on the screen for a long time, that fixed image may become imprinted on the screen and remain visible.

# Magic Picture Operations

## S.Magic Setting




1 Navigate to **Setup** menu.

2 Press ▲/▼ to select **S.Magic** item.

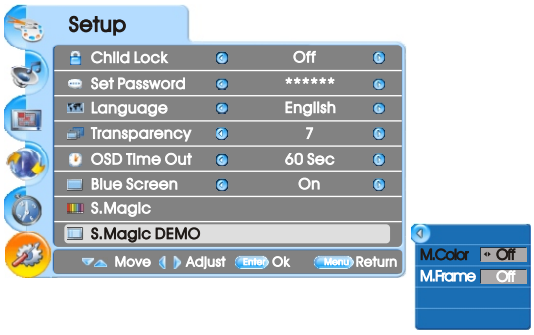
3 Press **ENTER** or ▶ to access the submenu.

4 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option. Press **MENU** to return to previous menu.

| *Option* | *Description* |
|---|---|
| **M.Frame** | Press ◀ / ▶ to set this function On when viewing motion picture which helps to enhance picture quality by removing picture's quivering. |
| **DNR** | Sometimes a noisy picture may appear on the screen because of poor signal. This function helps to enhance the picture quality by reducing the noise. You can select from Weak/Medium/Strong. |
| **ACR** | Making use of this function the unit will change the color saturation automatically according to the change of scenes and make the picture more natural. |
| **DCI** | Dynamic contrast improvement. Adjusts contrast automatically according to the change of scenes and make the picture more vivid. |

## S.Magic DEMO Setting

Making use of this function to demo magic picture effect in a split screen.




1 Navigate to **Setup** menu.

2 Press ▲/▼ to select **S.Magic DEMO** item.

3 Press **ENTER** or ▶ to access the submenu.

4 Use ▲/▼ to select **M.Color** or **M.Frame** and set it to **On**, then the **S.Magic DEMO** function is turned on.

| *Option* | *Description* |
|---|---|
| **M.Color** | Press ◀ / ▶ to set this function On to demo high picture quality. |
| **M.Frame** | Press ◀ / ▶ to set this function On to demo magic picture which applies M.Frame function. |

*Note*

The S.Magic Demo function is recommended to use in shopping mall demonstration. In household use, please turn off the Demo function.

## Using the S.Magic Button

You can press **S.Magic** button once to turn on the magic picture function. Press this button twice to turn off the magic picture function. Press this button the third time to demonstrate the magic picture on the split screen. Press this button the fourth time to turn off the demonstration and turn on the magic picture function again.

# Sound Adjustment

## Adjusting the Volume

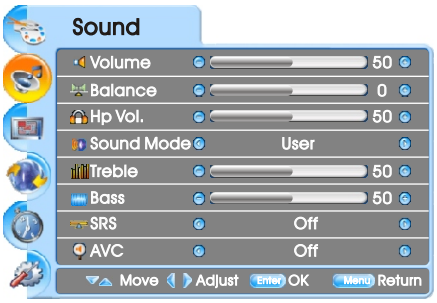
### ■ Using the volume buttons (VOL+ and VOL – )

Press the **VOL +** or **VOL-** to increase or decrease the volume.

### ■ Using the MUTE

Press the **MUTE** button to temporarily turn off all sound. To restore the sound, press the **MUTE** button again.

## Customizing the Sound




1 Press **MENU** and the main menu screen displays.

2 Press ▲/▼ to select **Sound** menu, press **ENTER** or ▶ to access.

3 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option. Press **MENU** to return to previous menu.

| *Option* | *Description* |
|---|---|
| Volume | Adjusts sound volume. |
| Balance | Adjusts volume balance (left and right volumes). |
| Hp Vol. | Adjusts headphone volume. |
| Sound Mode | Selects a desired sound mode. You can select from **News, Music, Movie** and **User**. |
| | **News:** Select for a news or conversation program. |
| | **Music:** Select for a music program. |
| | **Movie:** Select for a movie program. |
| | **User:** The sound quality you set. |
| ***Note:*** *To quickly change the sound mode, press the* ***S.MODE*** *button repeatedly.* | |
| Treble | Adjusts treble (high sounds). |
| Bass | Adjusts bass (low sounds). |
| SRS | Select **On** to turn SRS on.Select **Off** to turn SRS off.<br>SRS (Sound Retrieval System®) is an audio enhance technology that restores the spatial cues that are present in a live listening environment and processes it to provide a natural 3D sound field.<br>*The SRS symbol are trademark of SRS Labs,Inc.<br>SRS technology is incorporated under license from SRS Labs,Inc. |
| ***Note:*** *When the* ***SRS*** *effect is set to* ***On****, the* ***SRS*** *function may affect the setting of* ***Balance*** *item.* | |
| AVC (Auto Volume Control) | Select **On** to equalize overall volume levels across all channels.<br>Select **Off** to turn off the auto volume control. |

## Stereo/Bilingual Selection

You can quickly select sound multiplex mode by using the **STEREO** button on the remote control.

### ■ NICAM Broadcast Selection

This enables the selection of the reception mode when receiving a NICAM signal. To let you enjoy NICAM broadcasting, this TV set receives NICAM system stereo, bilingual, and monaural broadcasts.

**Stereo**

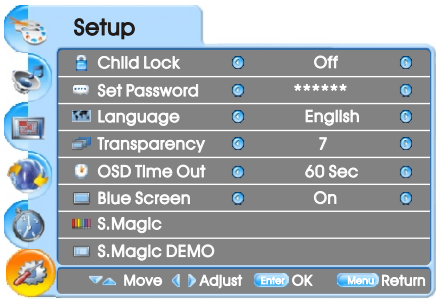
When the TV set is receiving a stereo broadcast, press the **STEREO** button to select **Stereo** or **Mono**. When **Mono** is selected, the TV sound is output monaurally.

**Bilingual**

When the TV set is receiving a bilingual program, press the **STEREO** button to select **Dual I** or **Dual 2**.

# System Setup

## On-Screen Display Setting



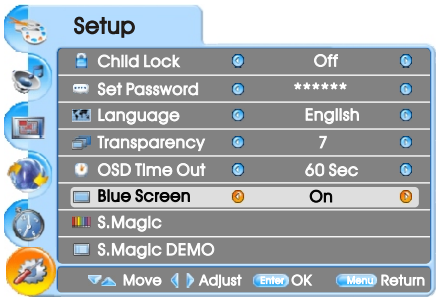

1 Press **MENU** and the main menu screen displays.

2 Press ▲/▼ to select **Setup** menu, press **ENTER** or ▶ to access.

3 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option. Press **MENU** to return to previous menu.

| *Option* | *Description* |
|---|---|
| **Language** | Selects on-screen menus language. |
| **Transparency** | Adjusts on-screen menu background transparency. |
| **OSD Time Out** | Adjusts OSD main menu displaying time. |

## Setting Blue Screen




1 Press **MENU** and the main menu screen displays.

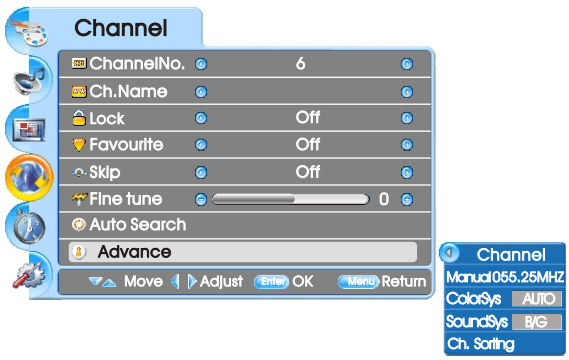
2 Press ▲/▼ to select **Setup** menu, press **ENTER** or ▶ to access.

3 Press ▲/▼ to select **Blue Screen** item, then press ◀/▶ to turn on/off blue screen.

If the Blue Screen function is turned on, the TV will display a blue screen when there is no input signal. (Only in TV mode)

## Setting Color/Sound System

Normally it is unnecessary to set color system and sound system. However, if abnormal color or sound occurs, you may try to adjust the color or sound system.




1 Press **MENU** and the main menu screen displays.

2 Press ▲/▼ to select **Channel** menu, press **ENTER** or ▶ to access.

3 Press ▲/▼ to select **Advance** item.

4 Press **ENTER** or ▶ to access the submenu.

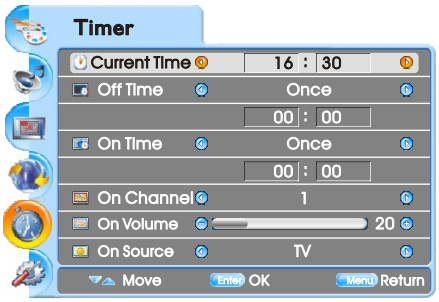
5 Press ▲/▼ to select **ColorSys** or **SoundSys** item.

6 Press ◀/▶ to select a proper color system or sound system. Normally please set the color system to **AUTO**, and the set can automatically identify the color system.

7 Press **MENU** button repeatedly to exit.

# Timer Setup

## Setting Current Time




1 Press **MENU** and the main menu screen displays.

2 Press ▲/▼ to select **Timer** menu, press **ENTER** or ▶ to access.

3 Highlight **Current Time** item, press **ENTER** to confirm.

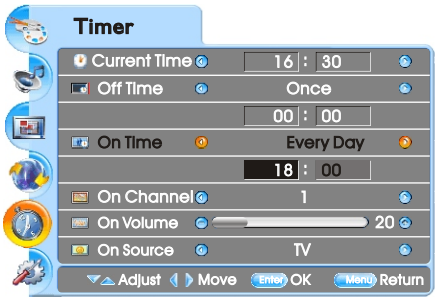
4 Press ◀ / ▶ to toggle between hour and minute, press ▲/▼ to adjust. When finished, make sure to press **ENTER** to confirm.

5 Press **MENU** button repeatedly to exit.

***Note***

Before setting Off time and On time, please set the current time for the TV.

## Setting On Timer




With On timer function On, at the preset time, the TV will automatically turn on and broadcast the preset program at the preset volume.

1 Navigate to **Timer** menu.

2 Press ▲/▼ to select **On Time** item.

3 Press ◀ / ▶ to select **Off**, **Once** or **Every Day**. If you select **Once** or **Every Day**, you can set the time by pressing **ENTER** button.

4 Press ◀ / ▶ to toggle between hour and minute, press ▲/▼ to adjust and then press **ENTER** to confirm.

5 After setting On Time, you can press ▲, ▼, ◀, ▶ to navigate through the following three options and adjust the option.

| *Option* | *Description* |
|---|---|
| **On Channel** | Selects a broadcasting program for On timer. |
| **On Volume** | Sets desired volume for the On program. |
| **On Source** | Selects other source to be viewed through On timer. |

6 Press **MENU** button repeatedly to exit.

7 Press ⏻ to switch the TV to standby mode. At the preset time, the TV will auto turn on and broadcast the preset program at the preset volume.

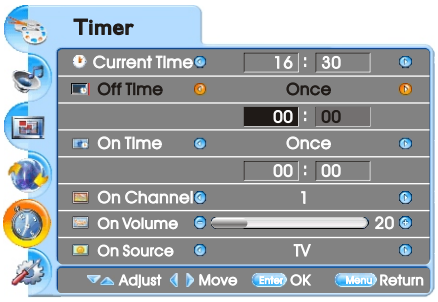
***Note***

**On Channel**, **On Volume** and **On Source** setting are effective when the **On Time** is set to **Once** or **Every Day**.

# Timer Setup (Continued) & Using Calendar

## Setting Off Timer

With Off timer function On, at the preset time, the TV will automatically turn off and be in standby mode.




1 Navigate to **Timer** menu.

2 Press ▲/▼ to select **Off Time** item.

3 Press ◀ / ▶ to select **Off**, **Once** or **Every Day**.
If you select **Once** or **Every Day**, you can set the time by pressing **ENTER** button.

4 Press ◀ / ▶ to toggle between hour and minute, press ▲/▼ to adjust, and then press **ENTER** to confirm.

5 Press **MENU** button repeatedly to exit.

**Note**

The time interval between current time and off time should be above 1 minute. When the last 1 minute comes, the unit will remind you after how many seconds the set will be turned off. During this period if you do not want the unit to be turned off, press any button to exit. If the TV loses power, the current time and time settings will be cleared and must reset.

## Setting Sleep Timer

The sleep timer lets you select the amount of time before your TV turns off automatically.
You can quickly set the sleep timer by using the **SLEEP** button on the remote control. Press this button repeatedly to select a desired value. Select **0 Min** to turn off sleep timer.

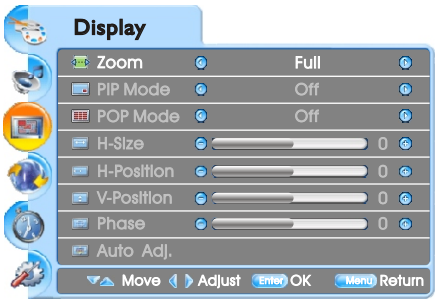
## Using Calendar

1 Press **CALENDAR** button on the remote control to display calendar.

2 Press ◀ / ▶ to toggle among year, month and day, press ▲/▼ to adjust.

3 Press **CALENDAR** button again to exit.

## PIP/POP Operations




1 Press **MENU** and the main menu screen displays.

2 Press ▲/▼ to select **Display** menu, press **ENTER** or ▶ to access.

3 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option. Press **MENU** to return to previous menu.

| *Option* | *Description* |
|---|---|
| **Zoom** | You can select the aspect ratio (display proportions) according to your video signal type or personal preference. You can select from **Full**, **14:9**, **Normal**, **Panor** and **Zoom**. |
| | **Full:** Displays a 16:9 picture. |
| | **14:9:** Displays a 14:9 picture. |
| | **Normal:** Displays a 4:3 picture. |
| | **Panor:** Enlarges the picture to fill the full screen. |
| | **Zoom:** Enlarges the picture, the top and bottom portions may be cropped. |
| ***Note:*** *You can press the* ***ZOOM*** *button directly to select a desired aspect ratio.* | |
| **PIP Mode (Not available in all sources)** | You can turn on the PIP (picture-in-picture) feature and select PIP position on the screen. You can select from **Off**, **Top-Left**, **Top-Right**, **Bottom-Right**, **Bottom-Left** and **Center**. |
| | **Off:** To turn off PIP feature. |
| | **Top-Left:** To turn on PIP feature and display PIP window at top-left corner of the screen. |
| | **Top-Right:** To turn on PIP feature and display PIP window at top-right corner of the screen. |
| | **Bottom-Right:** To turn on PIP feature and display PIP window at bottom-right corner of the screen. |
| | **Bottom-Left:** To turn on PIP feature and display PIP window at bottom-left corner of the screen. |
| | **Center:** To turn on PIP feature and display PIP window at the center of the screen. |
| ***Note:*** *You can press the* ***PIP*** *button to quickly turn on or off the PIP feature. When PIP is on, press* ***PIP Pos****. button to select PIP position.* | |
| **POP Mode (Not available in all sources)** | Opens POP(picture-out-picture) function to view two programs at the same time on two half screens. You can select from **Normal**, **Full** and **Off**. |
| | **Normal:** To open POP and display images in 4:3 ratio. |
| | **Full:** To open POP and display both images in full screen. |
| | **Off:** To turn off POP feature. |
| ***Note:*** *You can press the* ***POP*** *button several times to open POP and switch among POP Normal, POP Full and then return to normal screen.* | |

***Note***

- The PIP and POP features are not available in all sources. Only in YPbPr, HDMI,VGA input sources, you can open PIP or POP , and the sub window only can display TV program or AV program.
- In PIP or POP mode, press **Act.WIN** to select either the main window or sub window as active window (the characters indicating its input mode will turn to red) so that you can perform some operations for the sub window individually. The unit allows you to apply many operations to the sub window such as adjusting volume, changing channels, adjusting picture, selecting sources etc.

# Screen Setup for VGA (PC) Mode

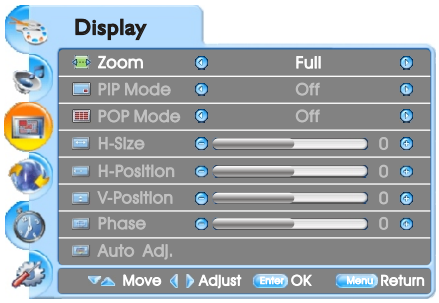
Before setting up the screen, make sure that you select the correct source (VGA).

## Screen Setup

1 Press **MENU** and the main menu screen displays.

2 Press ▲/▼ to select **Display** menu, press **ENTER** or ▶ to access.

3 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option. Press **MENU** to return to previous menu.




| *Option* | *Description* |
|---|---|
| H-Size | Adjusts the horizontal width of the image on the screen. |
| H-Position | Moves the image on the screen left or right. |
| V-Position | Moves the image on the screen up or down. |
| Phase | Improves the focusing of a stable image. |
| Auto Adj. | Selects and activates to start auto adjustment. The set automatically adjusts the screen settings, such as position and phase. |

# Troubleshooting

If, after reading these operating instructions, you have additional questions related to the use of your television, please call the services center in your local area.
Before calling service, please check the symptoms and follow suggested solutions.

## *Remote Control*

| *Problem* | *Possible Solutions* |
|---|---|
| Remote control does not operate | • The batteries could be weak. Replace the batteries.<br>• Check the orientation of the batteries.<br>• Make sure the power cord is plugged in. |

## *Video and Audio*

| *Problem* | *Possible Solutions* |
|---|---|
| No picture (screen not lit),<br>No sound | • Make sure the power cord is plugged in.<br>• Press POWER on the TV or on the remote control.<br>• Try another channel; it could be station trouble. |
| Dark, poor or no picture<br>(Screen lit), good sound | • Select a proper picture mode.<br>• Adjust the brightness in the video setting.<br>• Check the antenna connections. |
| No color/dark picture/color<br>is not correct | • Adjust the color saturation in the picture setting. |
| Only snow and noise appear<br>on the screen | • Check the antenna connections.<br>• Try another channel; it could be station trouble. |
| Dotted lines or stripes | • Adjust the antenna.<br>• Move the TV away from noise sources such as cars, neon signs, or hair dryers. |
| Double images | • Using a highly directional outdoor antenna or a cable may solve the problem. |
| Good picture, no sound | • The sound may be muted. Press MUTE again to cancel.<br>• Make sure the stereo mode is set to stereo or mono. |
| Audio noise | • Communication problems may occur if infrared communication equipment (e.g., infrared cordless headphones) is used near the TV. Move the infrared communication equipment away from the TV until the noise is eliminated. |

# Troubleshooting

## *General*

| *Problem* | *Possible Solutions* |
|---|---|
| One or some channels can't be displayed | • These channels may be locked. Please unlock them (see < Child Lock Setup> section).<br>• These channels may be set skipped in the channel list. You may set it to not skipped or select them with 0-9 number buttons. |
| Lost password | • You may use the super password (962326)to overwrite the old password, and the system will auto reset the password to 000000. |
| Some items can't be accessed | • If a setting option appears in gray, this indicates that the settings option is unavailable in current input mode. |
| TV cabinet creaks | • When the TV is in use, there is a natural rise in temperature, causing the cabinet to expand or contract and may be accompanied by a slight creaking noise. This is not a malfunction. |
| Control buttons do not operate | • Disconnect the power cord and wait for a few seconds. Then re-plug the power cord and turn on the unit again. |

***Note***

*If your problem is not solved, turn your unit off and then on again.*

### Cautions:

*Never attempt to repair a defective TV yourself.*

# Care and Maintenance

## Plasma Display panel

| Symptoms | Check item |
|---|---|
| Some parts of the screen do not light up. | The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction. |
| After-images appear | Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Display.<br>Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.<br>Note:<br>The permanent after-image on the Plasma Display resulting from fixed image use is not an operating defect.<br>This product is not designed to display fixed images for extended periods of time. |
| Snapping sounds may be heard from the display unit. | This sound is produced when the cabinet expands or contracts due to variations in temperature and is not a malfunction. |

## Cleaning and Maintenance

**The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.**

- If the surface is particularly dirty, soak a soft, lint-free cloth in a weak detergent solution and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth, of the same type, until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

**If the cabinet becomes dirty, wipe it with a soft, dry cloth.**

- If the cabinet is particularly dirty, soak the cloth in a weak detergent solution and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

# Specifications

| | |
|---|---|
| Display Size diagonal: | 63” |
| Power Supply: | AC100-240V 50/60Hz |
| Power Consumption: | 650W |
| Dimensions(mm): | 1510 (W) X 1089(H) X 410(D) |
| Unit Weight(kg): | 92 |

**TV system & channel coverage**

| System | VHF | UHF | CATV |
|---|---|---|---|
| PAL-B/G | 0~5, 5A, 6~11 | 21-69 | X~Z+2, S1~S41 |

| | |
|---|---|
| TV system: | PAL-BG |
| Accessories: | Operating manual X1 |
| | Remote control unit X1 |

Design and specifications are subject to change without notice.

SANYO Electric Co., Ltd.

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